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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Arturo A. Rodriguez

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EXAMINER

SALCE, JASON P

ART UNIT

PAPER NUMBER

2421

NOTIFICATION DATE

DELIVERY MODE

08/28/2009

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTOmail@sciatl.com

<b>Office Action Summary</b>	<b>Application No.</b> 10/008,399		<b>Applicant(s)</b> RODRIGUEZ, ARTURO A.	
	<b>Examiner</b> Jason P. Salce		<b>Art Unit</b> 2421	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

1) ☒ Responsive to communication(s) filed on 26 May 2009.

2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

4) ☒ Claim(s) 1-16, 20-25, 27-65, 68-97 and 112-115 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.

6) ☒ Claim(s) 1-16, 20-25, 27-65, 68-97 and 112-115 is/are rejected.

7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.

8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☐ All    b) ☐ Some \*    c) ☐ None of:

1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.

4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_.

5) ☐ Notice of Informal Patent Application

6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Information Disclosure Statement***

The information disclosure statements (IDS) submitted on 6/4/2009 and 7/8/2009 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements have been considered by the examiner.

### ***Response to Arguments***

Applicant's arguments with respect to claims 1-16, 20-25, 27-65, 68-97 and 112-115 have been considered but are moot in view of the new ground(s) of rejection.

The Examiner agrees with Applicant's arguments that Ukai does not individually weight each viewing score. However, the Examiner has applied the Herz reference, which teaches weighting individual viewing scores and determining an overall user preference score for the plurality of tracked viewing parameters based on a linear combination of the weighted scores associated with each of the plurality of tracked viewing parameters for the user.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims, 1-16, 20-24, 27-45, 49-65, 69-73, 75-94 and 112-115 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ukai et al. (U.S. Patent No. 7,096,486) in view of Herz et al. (U.S. Patent No. 5,758,257).

Referring to claim 1, Ukai discloses tracking a plurality of viewing parameters corresponding to services that are provided to a user (**see Figure 3 and Column 5, Lines 11-28 for storing/tracking a plurality of viewing parameters (*program name, date and time, genre, time period, language and preference measure*) corresponding to services that are provided to the user (*note that a language and genre and the time a program is broadcasted is representative of a television service provided to the user*)**).

Ukai also discloses determining a user preference for each of the plurality of viewing parameters (**see Figure 4 and Column 5, Lines 29-39 for the system determining a view time period which represents a user preference that is determined by monitoring how long a user watches a program and recording that time in memory**).

Ukai also discloses tracking the user preferences by assigning a score to each of the plurality of viewing parameters (**see Figure 5 and Column 5, Lines 40-55 for assigning a view score to each program's user preferences being tracked**).

Ukai also discloses determining an overall user preference score for the plurality of tracked viewing parameters based on a linear combination of the scores associated with each of the plurality of tracked viewing parameters for the user (**see Figure 5 for**

**the program view measure 504 and Column 5, Lines 40-55 for the program view measure 504 being calculated based on a linear combination of the scores associated with each of the plurality of tracked viewing parameters for the user).**

Ukai also discloses receiving user input requesting television functionality (**see Figure 6 and Column 6, Lines 2-7 for receiving a user input everytime the user inputs a request to view a program).**

Ukai also discloses providing the user with a result that is responsive to the user input and the overall user preference score (**see Figure 17 and Column 15, Lines 21-23 for displaying an EPG that displayed programs that are preferred by the user based on the preferences scores determined by the scoring of the programs, where the result is shown by graphic 1704).**

Ukai fails to teach weighting each of the viewing parameters and determining an overall user preference score for the plurality of tracked viewing parameters based on a linear combination of the weighted scores associated with each of the plurality of tracked viewing parameters for the user.

Herz also discloses assigning scores to viewing parameters (**see Column 11, Line 30 through Column 15, Line 43 for creating and adjusting scores of characteristic values in customer profiles**) and weighting the scores (**see Column 10, Lines 39-40, Column 11, Lines 16-29 and Column 13, Lines 40-54).**

Herz further teaches determining an overall user preference score for the plurality of tracked viewing parameters based on a linear combination of the weighted scores associated with each of the plurality of tracked viewing parameters for the user

(see Column 19, Line 5 through Column 21, Line 62 for using the weighted scores to determine a overall user preference score for the plurality of tracked viewing parameters based on a linear combination of the weighted scores in the customer profiles associated with each of the tracked characteristics for the user). *The Examiner further notes Column 29, Line 29 through Column 34, Line 11 for how customer profile characteristic values are continually updated based on the passive viewing of television program by a user, which includes additionally weighting the scores.*

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art, to modify the preference determination system, as taught by Ukai, using the agreement matrix calculation technique, as taught by Herz, for the purpose of providing video programs that have the most appeal to the customer (see Column 9, Lines 50-51 of Herz).

Referring to claim 2, Ukai discloses that the user preference is determined based on a duration that service characterized by one or more of the plurality of viewing parameters is presented to the user (see Figures 4 and 6 for determining the user's preference by using a duration (view time period 404) that a program has been viewed).

Referring to claim 3, Ukai discloses that the user preference is determined based on a frequency that a service characterized by one or more of the plurality of viewing

parameters is presented to the user (**see Figure 6 for determining a user preference 604 based on a number of programs 603 viewed**).

Referring to claim 4, see the rejection of claims 2-3.

Referring to claim 5, Ukai discloses that the user preference is for a service (**see the rejection of claim 1 and note that the service is the broadcasting of television program for viewer selection**).

Referring to claim 6, Ukai discloses that the user preference conflicts with another user preference (**see Figure 3 and note that the two programs in table 300 are show at two overlapping/conflicting time periods in table entries 303**).

Referring to claim 7, Ukai discloses that the user preference is defined by the user (**see Figure 4 for the user preference being determined by how long the user watches a television program**).

Referring to claim 8, Ukai discloses that the user preference is determined by tracking series that are provided by a digital home communication terminal (**see Figure 1 and Column 4, Lines 8-35 for the user preferences being tracked by a television receiver**).

Referring to claim 9, Ukai discloses that the result is only provided if a preference mode is activated (**see Column 4, Lines 21-53 for determining user preferences only when a user enters a program to be viewed, thereby activating the preference determination process**).

Referring to claims 10-12, see the rejection of claims 1 and 9.

Referring to claim 13, Ukai discloses that the user input indicates a preference against one or more of the plurality of viewing parameters (**see Figure 5 for the user viewing a program for a first time and second time, thereby showing entering a first time against a second time**).

Referring to claim 14, see the rejection of claim 13 and further note that the user can selection multiple programs (**see Figure 5 and Column 5, Lines 50-55 for continually updating the view score table 500**).

Referring to claim 15, Ukai discloses that a preference tracking database is used to keep track of the user preference (**see Figure 5 and Column 5, Lines 50-55 for updating the view score table 500**).

Referring to claim 16, see the rejection of claim 15 and note that the database keeps track of more than one user preference.



Referring to claims 20-22, Ukai discloses that the overall user preference score for the plurality of tracked viewing parameters changes over time, is revised using statistical analysis and determined using artificial intelligence (**see Figure 5 and Column 5, Lines 40-55 for the view scores being updated and using the data stored in tables 500-700 to artificially determine what programs a viewer may or may not enjoy watching, therefore since the system (*not the user*) determines what programs to present to the viewer, an artificial intelligence system is taught**). Further note that since weighted view measures and mean score calculations are determined (**see the rejection of claim 1**), Ukai clearly teaches the use of statistical analysis.

Referring to claim 23, Ukai discloses that the data identifying a user preference is stored in non-volatile memory (**see storage means 108 in Figure 1**).

Referring to claim 24, Ukai discloses that data identifying the user preference is stored within a digital home communication terminal (**see the rejection of claim 23**).

Referring to claims 27-35, see Figures 3 and 6 and Column 5, Lines 11-28 and Column 5, Line 56 through Column 6, Line 20 and the rejection of claim 1.

Referring to claims 36-41, see Figures 17, 21, 25-26, Column 14, Line 45 through 18, Line 7.

Referring to claims 42-45, see Figure 12 and Column 9, Line 21 through Column 10, Line 50.

Referring to claims 49-65, 69-73 and 75-94, see the rejection of claims 1-16, 20-24 and 27-45, respectively.

Referring to claim 112, Ukai discloses initially estimating weights for weighting the scores using artificial intelligence technology (**see the rejection of claim 22 for how the system applies artificial intelligence technology and Column 5, Lines 44-55 for calculating an initial weight (1.0) when a program in a series of programs is viewed for the first time**).

Referring to claim 113, Ukai discloses refining the weights for weighting the scores using artificial intelligence technology (**see the rejection of claim 22 for how the system applies artificial intelligence technology and Column 5, Lines 44-55 for calculating an updated weight (Figure 5) when a program in a series of programs is viewed for a second time**).

Referring to claims 114-115, see the rejection of claims 112-113, respectively.

Claims 25 and 74 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ukai et al. (U.S. Patent No. 7,096,486) in view of Alexander et al. (U.S. Patent No. 6,177,931).

Referring to claim 25, Ukai discloses all of the limitations of claim 1, but fails to teach that the preference data is stored at the headend.

Alexander teaches that user preferences can be transmitted back to a headend for further analysis (**Column 29, Lines 12-36**).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art, to modify the TV analysis process, as taught by Ukai, to perform the analysis at the headend, as taught by Alexander, for the purpose of providing a lower cost TV receiving device that contains a cheaper processor and memory devices since there would be no need for processor intensive tasks (constantly processing and updating user preferences).

Referring to claim 74, see the rejection of claim 25.

Claims 46-48 and 95-97 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ukai et al. (U.S. Patent No. 7,096,486) in view of Block et al. (U.S. Patent No. 6,675,384).

Referring to claims 46-48, Ukai discloses all of the claim limitations in claims 45-47, respectively, but fails to teach a conditional access system that will not tune to a program selection unless a user enters his/her PIN/password.

Block teaches a parental control program resident on a television receiver device **(see elements 100 and 110 in Figure 1)**.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art, to modify the TV receiving device, as taught by Ukai, to contain a parental control program, as taught by Block, for the purpose of providing a means for users to gain by being able to make informed choices **(see Column 2, Lines 42-49 of Block)**.

Referring to claims 95-97, see the rejection of claims 46-48, respectively.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason P. Salce whose telephone number is (571) 272-7301. The examiner can normally be reached on M-F 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on (571) 272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jason P Salce/  
Primary Examiner, Art Unit 2421

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August 24, 2009